910H

Ethernet Hub
Quick Installation Guide

For the Ethernet 10BASE-T 9-Port Mini Hub

This guide includes the following information:

Doc #: 75411 Rev. A

Introduction

This user's guide describes all features, covers installation and operating instructions of the 910H in an easy-to-read yet thorough manner.

Package Contents

The 910H package contains the following items:

- One 910H Hub

- One AC Power Adapter

- One BNC T-Connector

- This User's Manual

- Four pieces Rubber Foot

- Two pieces Tapping Screw

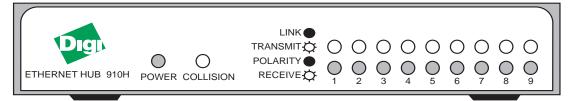- Two pieces Nylon Screw Anchor

Features Overview

Your 910H Hub includes the following features:

- Interconnects one 10BASE2 segment and eight 10BASE-T link segments

- IEEE 802.3 10BASE2 and 10BASE-T compliant

- Can use either the BNC or the RJ-45 port as the cascading port

- Port auto-partitioning and reconnection to facilitate faulty segment isolation

- Polarity auto-detection and auto-correction for UTP ports

- Data collision and jabber handling functions

- Two LEDs per port to indicate Link, Transmit, Receive, Polarity and Partition

The 910H Hub

The illustrations that follow depict the various external components of the hub.

Figure 1

1. Power (GREEN) Indicator

    When the power LED is lit, it indicates that the hub's power is on.

2. Collision (RED) Indicator

    This LED indicator blinks when the hub detects a collision on the network.
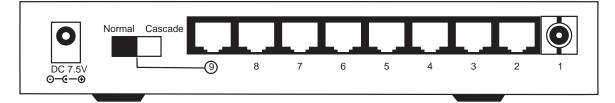
3. Link/Transmit (GREEN) Indicators

    These LEDs Indicator light green when the respective connection is okay. A blinking LED indicates that transmission is occurring on the segment.

4. Polarity/Receive (YELLOW) Indicators

    These LEDs Indicator light red when data wires have been reversed (the polarity has been reversed) A blinking LED to indicates data is being received on the segment.

5. Partition Indicators

    Partition is indicated by the alternate flashing of the green and yellow LEDs

Figure 2

1. RJ-45 UTP Ports

    The Hub is equipped with 8 RJ-45 UTP ports for making 10BASE-T hub-to-workstation connections.

2. Cascade Enable Slide-Switch

    Slide this switch to the right to enable cascading with straight UTP cables.

3. AC Adapter Port

    Plug the AC adapter jack into this port

4. BNC Port

    The Hub is equipped with one BNC port for making 10BASE2 hub-to-workstation connections

Making Network Connections

The 910H hub has eight RJ-45 connectors for attaching up to eight 10BASE-T based workstations. To establish such connections:

1. Ensure that both the Hub and the soon-to-be-connected workstation are in the power off mode.

2. Plug one end of the UTP cable into an available 10BASE-T hub port.

3. Plug the other end into the workstation's network interface card. The following figure 3 illustrates a simple network topology using a 10BASE-T hub-to-workstation connections.

The 910H hub has one BNC port for making 10BASE2 hub-to-workstation connections. To establish such connections:

1. Ensure that both the Hub and the soon-to-be-connected workstation are in the power off mode.

2. Plug one end of the coaxial cable into the Hub's BNC port. Please refer to figure 3 if you are having trouble locating this port.

3. Connect the other end of the coaxial cable to the workstation's BNC connector located on the network interface card. Please refer to figure 3 for an illustration of such a connection.

Note: If port 1 (BNC PORT) doesn't connect to the hub port1 (BNC PORT) is indicated by the alternate flashing of the green and yellow LEDs. The port 1 LEDs don't flash after connecting cable to port 1 and using hub.

The following diagram illustrates 10BASET and 10BASE-2 network connections using the hubs BNC connector.
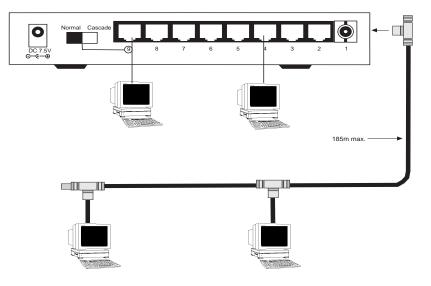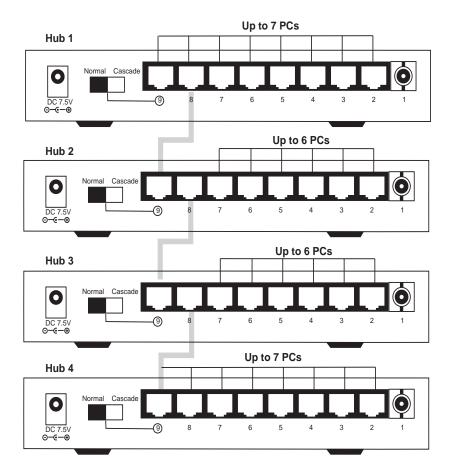

Figure 3

Cascading Hubs

When you 10BASE-T network needs to grow past the eight available UTP connections provided by the hub you should consider purchasing an additional hub and cascading it with the original hub.

The 910H features a cascade enable switch. The switch allows you to use straight UTP cables instead of the traditional cables when cascading hubs on port 9.

The following diagram illustrates 10BASE-T cascading:

Figure 4

Wall Mounting

After you have decided on a suitable location for mounting the hub, mark the location for mounting two screws 165mm apart. At the marked locations, drill two holes and insert a tapping screw in each hole. Align the hub's wall-mount slots with the screws and slide the hub down until the screws are securely last to the hub. You can now complete the installation procedure by marking the necessary cable connections.

Legal

Regulatory Approvals

- FCC Class A
- UL 1950
- CSA 22 No. 950
- EN60950
- CE
  - EN55022 Class B
  - EN50082-1

Canadian EMI Notice

This Class A digital apparatus meets all the requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

European Notice

Products with the CE Marking comply with both the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the commission of the European Community. Compliance with these directives implies conformity to the following European Norms:

- EN55022 (CISPR 22) - Radio Frequency Interference
- EN50082-1 (IEC801-2, IEC801-3, IEC801-4) - Electromagnetic Immunity
- EN60950 (IEC950) - Product Safety

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